



**Washington State
Department of Transportation**

Supplemental Agreement Number 1		Organization and Address WHPacific, Inc. 12100 NW 195th St, Suite 300 Bothell, WA 98011	
Original Agreement Number		Phone: 425-951-4800	
Project Number AIP 3-53-0156-005-2014	Execution Date	Completion Date 12/31/2016	
Project Title Packwood Airport 55S 2015/2016 Runway 01-19	New Maximum Amount Payable \$ 328,326.00		
Description of Work Include rotating beacon and wind cone replacement as part of the overall runway improvements project			

The Local Agency of Lewis County
desires to supplement the agreement entered into with WHPacific, Inc.
and executed on 11/21/2014 and identified as Agreement No. _____

All provisions in the basic agreement remain in effect except as expressly modified by this supplement.

The changes to the agreement are described as follows:

I

Section 1, SCOPE OF WORK, is hereby changed to read:

The Scope of Work and projected level of effort required for this PROJECT is hereby amended to add Exhibit A-2, attached hereto and by this reference made part of this AGREEMENT.

II

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the number of calendar days for completion of the work to read: No Change

III

Section V, PAYMENT, shall be amended as follows:

CONSULTANT shall be paid by AGENCY for completed services rendered under this AGREEMENT, as provided in Exhibits "D", and "D-2" attached hereto and by this reference made part of this AGREEMENT.

as set forth in the attached Exhibit A, and by this reference made a part of this supplement.

If you concur with this supplement and agree to the changes as stated above, please sign in the appropriate spaces below and return to this office for final action.

By: _____

By: _____

Consultant Signature

Approving Authority Signature

Date



EXHIBIT A-2

SCOPE OF SERVICES

LEWIS COUNTY – PACKWOOD AIRPORT (55S) 2015/2016 Runway 01-19 Improvements Project Phase 2 – Design & Environmental Documentation Supplement #1

Description of Project

Design and environmental documentation is underway for the Runway 01-19 Improvements Project (Project). Bidding for this project is anticipated to take place in April of 2015. Construction is expected to occur during the summer of 2015 or 2016, dependent upon the FAA grant offer schedule.

Lewis County (County) proposes adding the following two work items to the Project:

- **Airport Rotating Beacon Replacement:** The existing beacon is not operational due to water damage. The beacon will be replaced and the new beacon installed on a new tip-down pole for ease of maintenance. Site analysis will be completed to determine the most desirable location and the elevation for the new beacon.
- **Airport Wind Cone Replacement:** The existing wind cone is not compatible with the new runway lighting system. The wind cone will be replaced as part of this Project. A site analysis will be performed to determine the ideal location for the new wind cone.

Design will be in accordance with FAA Advisory Circular (AC) 150/5300-13A, Change 1, *Airport Design* and related circulars.

WHPacific, Inc. (Consultant) will provide the following Specified Services for the Project as described in this Scope of Services. All engineering work will be performed using accepted engineering principles and practices and will provide quality products that meet industry standards.

Task 1 – Preliminary / Final Design Services

Task 1.1 Project Management

Develop scope of services and coordinate with subconsultants. Coordinate with the County and the FAA regarding proposed rotating beacon and wind cone locations.

Task 1.2 Topographic Survey

Site Analysis: Examine existing locations of the airport rotating beacon and the wind cone. Identify and recommend new locations if existing onsite conditions warrant changes to improve visibility. If new locations or higher elevations are proposed, prepare FAA Form 7460-1, Notice of Proposed Construction or Alteration and provide an electronic copy to the FAA for circulation and approval.

Task 1.3 Geotechnical Investigation

Tip-down Pole Foundation Design: Perform foundation analysis and design. Provide recommended foundation sections for the tip-down pole and the wind cone pole.

Task 1.8 50% Design Submittal

The 50% submittal will include the following:

- a) **50% Construction Drawings:** Prepare construction plans to the 50% level and submit for review. The 50% Construction Drawings will include the following:

Description	No. of Sheets
Demolition Plan	1
Airport Rotating Beacon Plan & Details	2
Tip-down Pole Foundation Details	1
Airport Wind Cone Plan & Details	2
TOTAL	6

- b) **50% Technical Specifications:** Prepare technical specifications for the rotating beacon and the wind cone.
- c) **50% Construction Cost Estimate.**
- d) **50% Engineer's Design Report:** The Engineer's Design Report shall be developed in conformance with the FAA Design Report outline included in FAA's Engineering Guidance 2013-04.
- e) **QA/QC:** Complete QA/QC efforts on 50% submittal.

Task 1.10 90% Design Submittal

Incorporate comments received from the County and the FAA on the 50% Design Submittal, and advance the documents to the 90% complete stage:

- a) **90% Construction Drawings**
- b) **90% Technical Specifications**
- c) **90% Construction Cost Estimate**
- d) **Final Engineer's Design Report**
- e) **QA/QC:** Complete QA/QC efforts on 90% submittal

Task 1.14 Incorporate Comments and Finalize Contract Documents

Incorporate design comments from the County and the FAA and respond as necessary to requests for additional information. Finalize construction plans and specifications. Prepare final quantity calculations and Engineer's Estimate.

DELIVERABLES:

Project deliverables will include the following:

1. FAA Form 7460-1, Notice of Proposed Construction or Alteration (PDF via email) – if needed
2. 50% Design Submittal (3 copies)
 - a. 50% Construction Drawings - 11"x17"
 - b. 50% Technical Specifications
 - c. 50% Construction Cost Estimate
 - d. 50% Engineer's Design Report
3. 90% Design Submittal (3 copies)
 - a. 90% Construction Drawings - 11"x17"
 - b. 90% Technical Specifications
 - c. 90% Construction Cost Estimate
 - d. Final Engineer's Design Report
4. Final Contract Documents, Technical Specifications, and Plans - 11"x17" (6 copies)

ASSUMPTIONS:

- All proposed improvements will be included in one (1) construction bid package.
- No additional permitting requirements are needed for the rotating beacon and wind cone replacement.

EXHIBIT D-2

CONSULTANT FEE ESTIMATE



Client: **Lewis County - Packwood Airport (55S)**

Project: **2015 / 2016 Runway 01-19 Improvements Project - Design & Environmental Documentation Supplement #1**

LABOR:

TASK NO.	TASK (Scope of Services)	WHPACIFIC PROJECT TEAM									TOTAL HOURS	LABOR COST
		Project Manager 150.00	Senior Engineer 140.00	Civil Engineer 100.00	Senior Environ. 115.00	Staff Environ. 80.00	CADD Technician 115.00	Survey Technician 115.00	Survey Crew 165.00	Project Coord. 70.00		
1.1	Project Management	8	0	0	0	0	0	0	0	4	12	\$1,480
	Scope Development	4								4		
	Manage and Coordinate with Subs	2										
	County and FAA Coordination	2										
1.2	Topographic Survey - Site Analysis	6	0	20	0	0	0	0	0	0	26	\$2,900
	Rotating Beacon Site Analysis	2		8								
	Wind Cone Site Analysis	2		8								
	FAA 7460-1 (Rotating Beacon)	1		2								
	FAA 7460-1 (Wind Cone)	1		2								
1.3	Geotechnical Investigation - Tip-down Pole	18	40	0	0	0	8	0	0	0	66	\$9,220
	Soil Parameters Determination	2	8									
	Tip-down Pole Foundation Analysis & Design	8	16				4					
	Wind Cone Pole Foundation Analysis & Design	8	16				4					
1.8	50% Submittal	19	20	44	0	0	36	0	0	1	120	\$14,260
	Demolition Plan	1		4			4					
	Airport Rotating Beacon Plan & Details (2)	4		12			12					
	Tip-down Pole Foundation Details	4	8	8			8					
	Airport Wind Cone Plan & Details (2)	4	4	12			12					
	50% Technical Specifications	2	4	4						1		
	50% Construction Cost Estimate	1	2	2								
	50% Engineer's Design Report	1		2								
	QA/QC	2	2									
1.10	90% Submittal	14	16	32	0	0	24	0	0	1	87	\$10,370
	90% Construction Drawings	8	8	24			24					
	90% Technical Specifications	2	4	4						1		
	90% Construction Cost Estimate	1	2	2								
	Final Engineer's Design Report	1		2								
	QA/QC	2	2									
1.14	Incorporate Comments and Finalize Contract	6	2	12	0	0	12	0	0	0	32	\$3,760
	Incorporate Comments	2		8			8					
	Final QA/QC	2	2									
	Finalize Plans, Specs, Cost Estimate, & Report	2		4			4					
	Labor Subtotal	71	78	108	0	0	80	0	0	6	343	\$41,990

Labor Total: \$41,990

EXPENSES:

ITEM	QUANTITY	UNIT COST	EXPENSES COST
Vehicle Mileage	0	\$0.56	\$0
Per Diem	0	\$130.00	\$0
Postage	0	\$30.00	\$0
Plots and Reproductions	20	\$3.00	\$60
Document copies	100	\$0.75	\$75
Expenses Total:			\$135

SUBCONSULTANTS:

SUBCONSULTANT	FEE	MARK UP	SUBCONSULTANT COST
			\$0
			\$0
Subconsultants Total:			\$0
Project Fee Subtotal:			\$42,125
Contingency (0%):			\$0
TOTAL PROJECT FEE:			\$42,125